

Project/Product

Transition Partner

Technical Readiness Level (TRL)

Lake Erie Operational Forecasting System (LEOFS) NOAA/NOS/CO-OPS	8	Hydrodynamic Models
Huron-Erie Connecting Waterways Forecasting System (HECWFS) NOAA/NOS/CO-OPS	7	
Lake Michigan-Huron Operational Forecasting System (LMHOFS) NOAA/NOS/CO-OPS	6	
Great Lakes FVCOM-Ice Model NOAA/NOS/CO-OPS	5	
Lake Superior Operational Forecasting System (LSOFS) NOAA/NOS/CO-OPS	4	
Lake Ontario Operational Forecasting System (LOOFS) NOAA/NOS/CO-OPS	3	
Short-term Flow Forecasting System for the Niagara River NYPA/OPG via NOAA/NOS/CO-OPS & NOAA/NWS/NERFC	3	Hydraulic Models
Advanced Hydrologic Prediction System (AHPS) U.S. Army Corps of Engineers Detroit District	5	Hydrologic Models
Coordinated Great Lakes Regulation and Routing Model (CGLRRM) International Joint Commission (IJC)	4	
Long-term Water Level Forecast System for the St. Lawrence River New York Power Authority (NYPA/OPG)	3	
Lake Erie HAB Operational Forecasting System (HAB-OFS) NOAA/NOS/CO-OPS	6	Ecological Forecasting
Coupled FVCOM-Wave Watch III for Great Lakes NOAA/NWS/NCEP	2	Coupled Modeling

Technical Readiness Level (TRL) Definitions

1: Basic principles have been observed and reported.

2: Technology concept and/ or application has been formulated.

3: Analytical and experimental critical function and/or characteristic proof-of-concept.

4: Component/subsystem validation in laboratory environment.

5: System/subsystem validation in relevant environment.

6: System/ subsystem model or prototyping demonstration in a relevant end-to-end environment.

7: System prototyping demonstration in an operational environment.

8: Actual system completed and “mission qualified” through test and demo in operational environment.

9: Actual system “mission proven” through successful operations.